Nexus 6 Motherboard Replacement
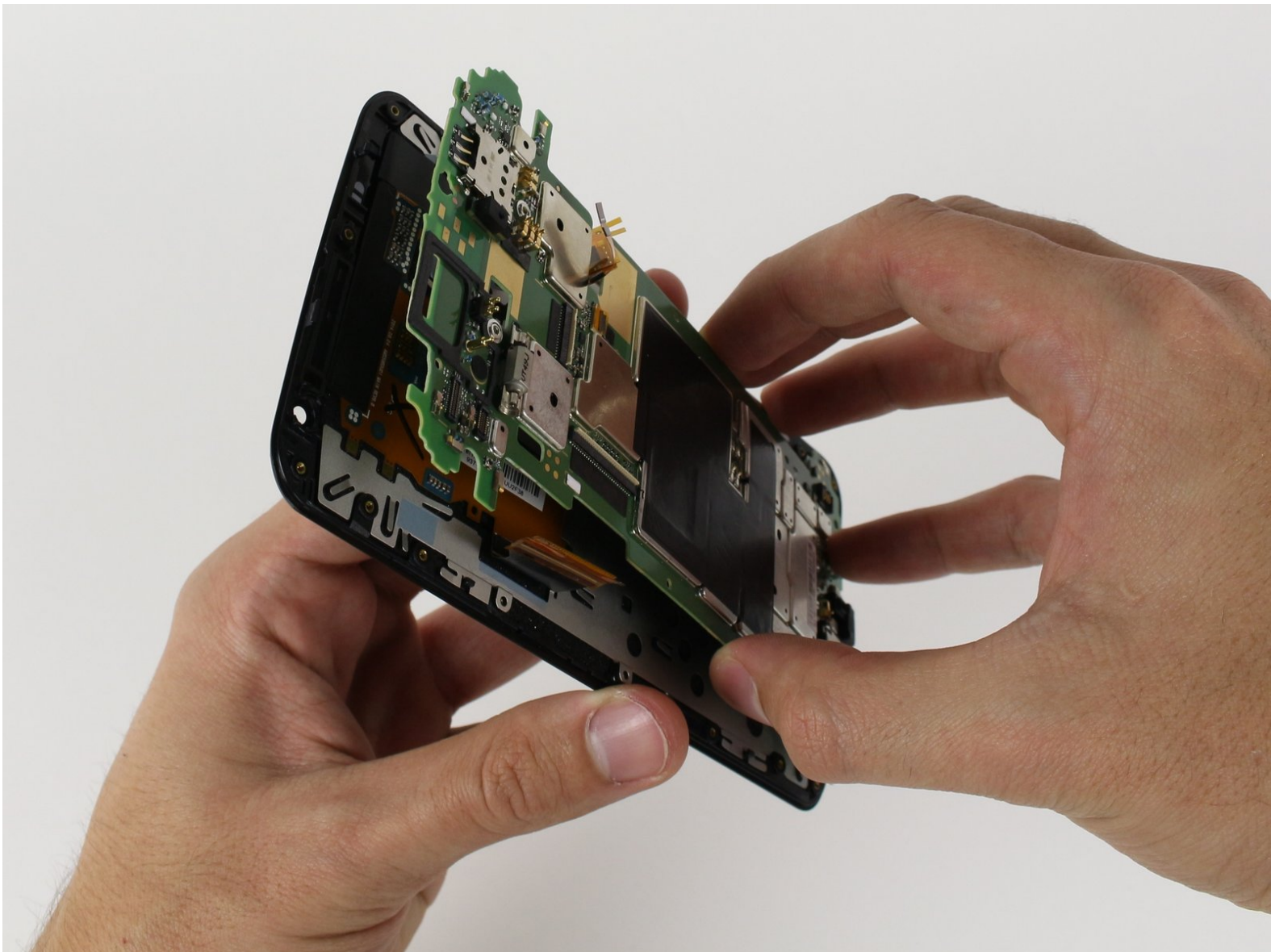
This guide will explain the steps to be able to replace the motherboard of the Nexus 6.

Written By: Marina Moore

This document was generated on 2019-09-16 01:25:03 PM (MST).

INTRODUCTION

This guide is used to remove and replace the motherboard of the Nexus 6 phone. It can be used if your phone's power supply continues to freeze or crash. Also, if your phone fails to recognize connectors that it previously recognized, you may need to replace the motherboard. Motherboard replacement should be treated with care.

TOOLS:

- Paper Clip (1)
- Spudger (1)
- T3 Torx Screwdriver (1)
- Tweezers (1)
- SIM Card Eject Tool (1)
- iFixit Opening Picks set of 6 (1)

PARTS:

- Nexus 6 Rear Panel (1)
- Nexus 6 Front Camera (1)
- Nexus 6 Rear Camera (1)
- Nexus 6 Motherboard (1)

This document was generated on 2019-09-16 01:25:03 PM (MST).
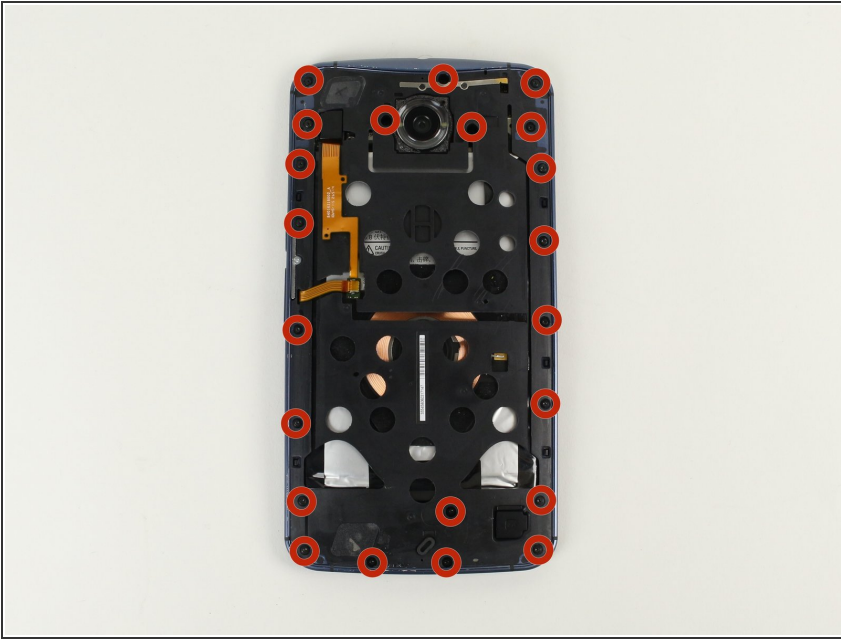
Step 1 — SIM Card

- With a SIM card eject tool (a paperclip will work as well), push down on the hole at the top of the phone until the SIM card holder releases. This should not take much pressure.

- Remove the SIM card and the SIM card holder.
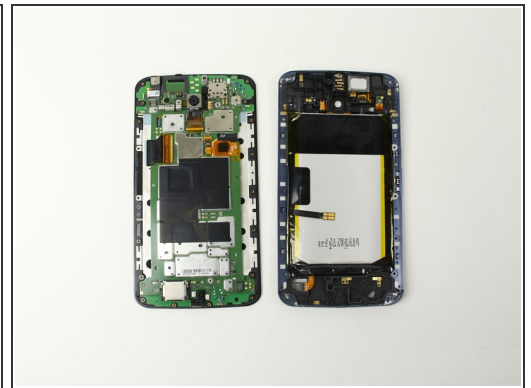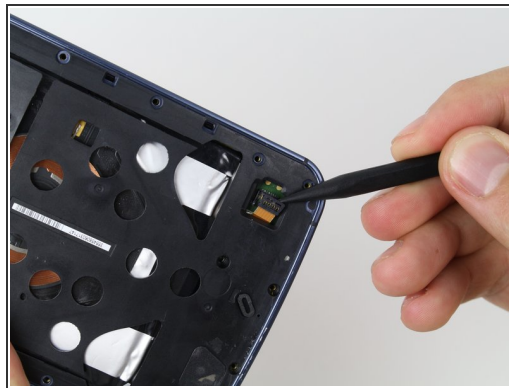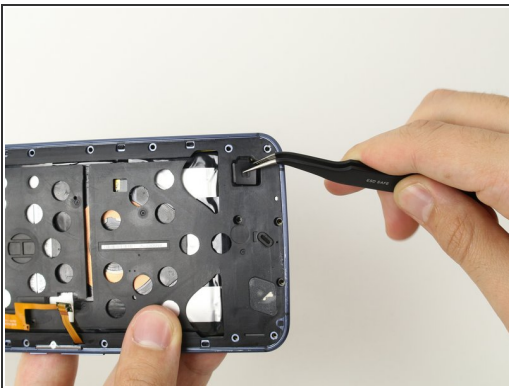
Step 2 — Rear Case

- Lay out a soft cloth on your workspace to prevent scratching the screen in this and future steps.

- Pry open the back casing using the soft plastic opening pick.

  ⚠️ Be careful of the Power & Volume Key ribbon on the left side just next to the volume key. The ribbon is exposed and could be damaged with the opening tool.

- Carefully pull the back casing apart from the rest of the phone with your hands. Because the casing is glued to the rest of the phone, this step may require some force. Don't be alarmed if the casing flexes a bit.

- ⓘ You may need an iOpener to loosen up the adhesive. Check out the iOpener Instructions for info on how to use it.

- ⓘ You can use a Small Suction Cup on the bottom corner to slightly lift up the back casing and help slipping the tool under the cover.

Step 3

- Remove the twenty-two 2.3 mm T3 Torx screws with the T3 Torx Screwdriver.
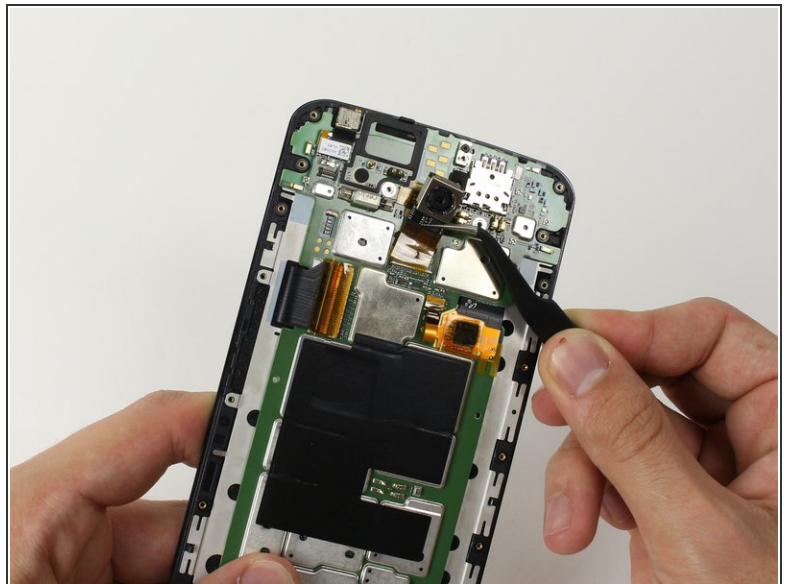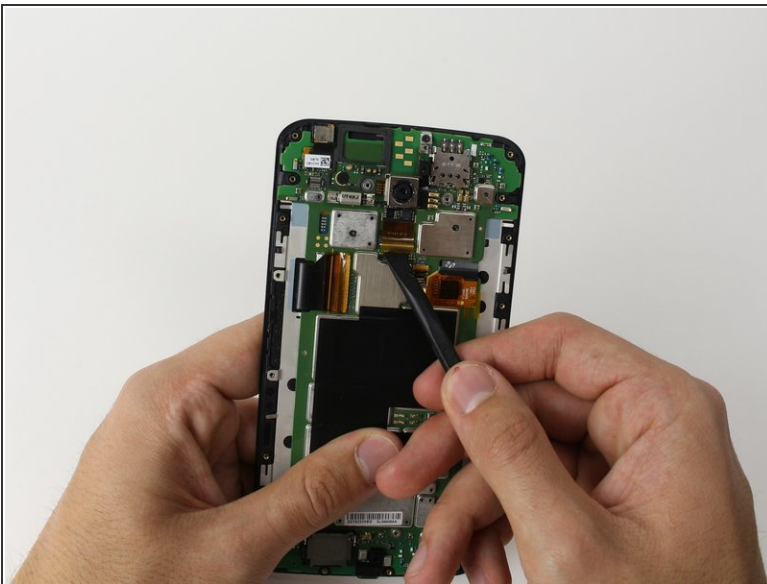
Step 4

- With tweezers, remove the rubber protector on the lower part of the phone.

- Disconnect the battery connector by gently prying it straight up with a spudger, on the side opposite the cable.

- Completely separate the battery side from the motherboard side by gently pulling the sides apart with your hands.

Step 5 — Front Facing Camera

- Use a spudger to gently detach the front facing camera connector.

- Remove the front facing camera using the tweezers.

Step 6 — Rear Facing Camera

- Use the spudger to release the rear facing camera connector.

- Use tweezers to gently remove the rear facing camera.

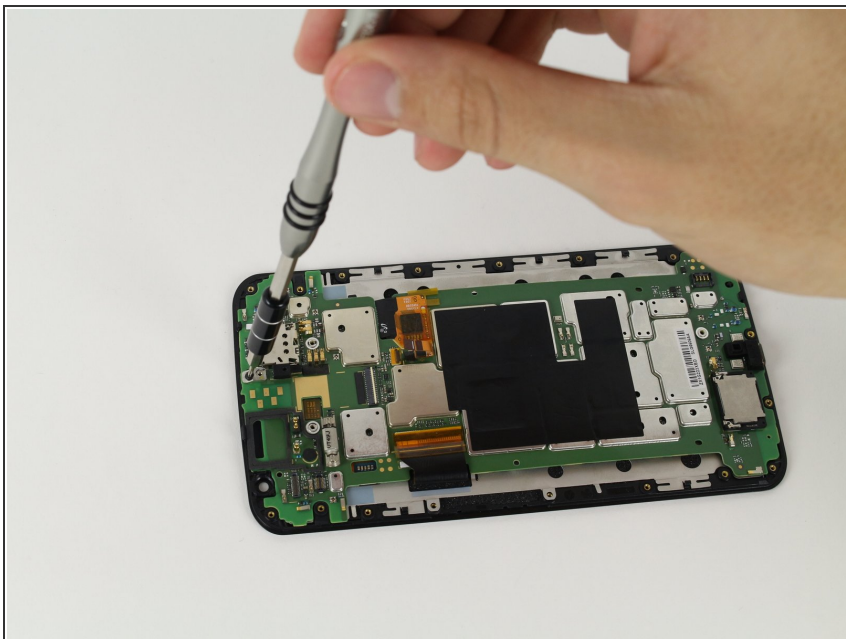This document was generated on 2019-09-16 01:25:03 PM (MST).

Step 7 — Motherboard

- With a spudger, unlatch the ZIF connector for the smallest ribbon cable in the center. See instructions for detatching ZIF connectors here

- Use tweezers to release the ribbon cable.

This document was generated on 2019-09-16 01:25:03 PM (MST).

© iFixit — CC BY-NC-SA   www.iFixit.com   Page 7 of 9

Step 8

- With a spudger, unlatch the ZIF connector of the big ribbon cable on the side of the phone. See instructions for detatching ZIF connectors here.

- Use tweezers to release the ribbon cable completely.

  ⚠ This connector and the ribbon are attached with a piece of amber anti-static tape. Make sure to release the tape from the ribbon before to pull it out of the connector.

Step 9

- Remove the 2.3 mm T3 Torx screw on the top of the phone.

Step 10

- Peel the motherboard off of the screen with your hands.

To reassemble your device, follow these instructions in reverse order.

This document was generated on 2019-09-16 01:25:03 PM (MST).